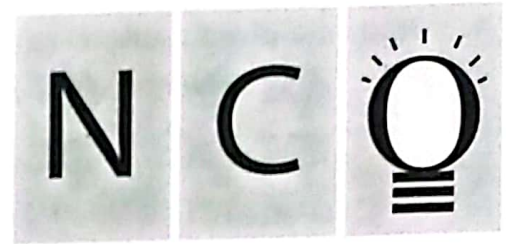


CLASS
4

QUESTION
PAPER SET
A



SOF NATIONAL CYBER
OLYMPIAD 2022-23

DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO

Total Questions: 35 | Time: 1 hr.

Guidelines for the Candidate

1. You will get additional ten minutes to fill up information about yourself on the OMR Sheet, before the start of the exam.
2. Write your **Name, School Code, Class, Roll No.** and **Mobile Number** clearly on the **OMR Sheet** and do not forget to sign it. We will share your marks / result and other information related to SOF exams on your mobile number.
3. The Question Paper comprises three sections:
Logical Reasoning (5 Questions), **Computers and Information Technology** (25 Questions) and **Achievers Section** (5 Questions).
Each question in Achievers Section carries 2 marks, whereas all other questions carry one mark each.
4. All questions are compulsory. There is no negative marking. Use of calculator is not permitted.
5. There is only ONE correct answer. Choose only ONE option for an answer.
6. To mark your choice of answers by darkening the circles on the OMR Sheet, use **HB Pencil** or **Blue / Black ball point pen** only. E.g.
Q.16: _____ means to hold down the left mouse button while you move the mouse pointer to a new place.
A. Single click B. Double click C. Dragging D. Left click
As the correct answer is option C, you must darken the circle corresponding to option C on the OMR Sheet.
7. Rough work should be done in the blank space provided in this booklet.
8. Return the OMR Sheet to the invigilator at the end of the exam.
9. Please fill in your personal details in the space provided on this page before attempting the paper.

16. (A) (B) (C) (D)



Name:.....

SOF Olympiad Roll No.:..... Contact No.:.....

LOGICAL REASONING

1. Study the given patterns carefully and tell the number of fish in Pattern 6.



Pattern 1



Pattern 2



Pattern 3

A. 20

B. 16

C. 24

D. 28

2. Some letters are given which are numbered as 1, 2, 3, 4, 5 and 6. Find the combination of numbers so that the letters are arranged accordingly to form a meaningful English word.

N E C G H A

1 2 3 4 5 6

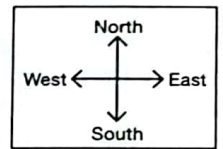
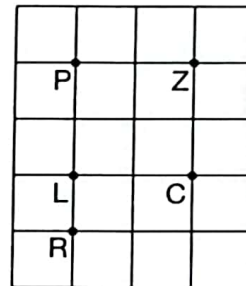
A. 3, 5, 6, 1, 4, 2

B. 5, 6, 4, 2, 1, 3

C. 3, 5, 1, 6, 2, 4

D. 4, 6, 3, 2, 1, 5

3. Pooja moves from one point to another point as marked. She starts from point L and moves towards North to reach a point. She then turns and moves in East direction to reach another point. Finally, she turns and moves in South direction and reaches end point. On which point is she right now?



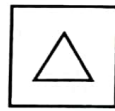
A. R

B. Z

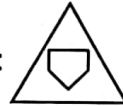
C. P

D. C

4. There is a certain relationship between the pair of figures on the either side of ::. Identify the relationship of the given pair and find the missing figure.



: 12 ::



: ?

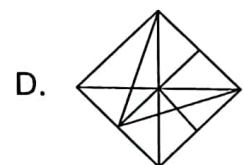
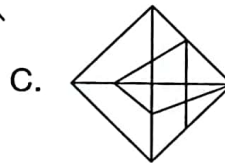
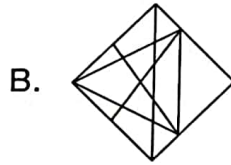
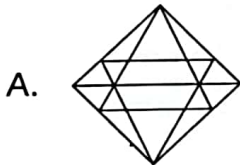
A. 7

B. 15

C. 9

D. 12

5. In which of the following options, the given figure is exactly embedded as one of its parts?



SPACE FOR ROUGH WORK

COMPUTERS AND INFORMATION TECHNOLOGY

6. Which of the following statements hold(s) true with respect to computer hardware?
Statement 1 : All the physical components of a computer system which you can touch and feel are called hardware.

Statement 2 : Hard disk drive is an example of hardware.

- A. Only Statement 1
B. Only Statement 2
C. Both Statement 1 and Statement 2
D. Neither Statement 1 nor Statement 2

7. Which of the following types of input devices is used to move cursor across the screen?

- A.  B.  C.  D. 

8. This device shown here was made up of fluted drums and developed by Gottfried Wilhelm Leibniz and is called _____.

- A. Pascaline
B. Difference Engine
C. Leibniz Calculator
D. Analytical Engine



9. Identify the following:

- It is a word processing software.
- It comes under the category of application software.

- A.  B.  C.  D. 

10. Identify the type of brushes used in drawing the given image in MS-Paint of Windows 10.

- A. Airbrush
B. Crayon
C. Marker
D. Oil brush



11. Which of the following is NOT an E-commerce website?

- A.  snapdeal B.  amazon C.  D. 

SPACE FOR ROUGH WORK

12. What is the full form of MAN?

- A. Metro Area Network
- B. Metropolitan Assessment Network
- C. Medium Area Network
- D. Metropolitan Area Network


13. Match the MS-Word 2016 icons given in Column-1 with their descriptions given in Column-2.

Column-1


Column-2

(a) **Aa** v


(1) It is used to apply a text effect in your document.

(b) 

(2) It is used to decrease the size of font.

(c) 

(3) It is used to change the selected text to lowercase or uppercase.

(d) 


(4) It is used to remove all formatting from the selected text.

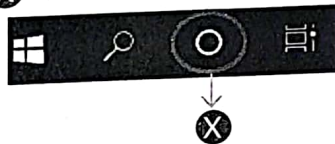
A. (a)-(3), (b)-(4), (c)-(1), (d)-(2)

B. (a)-(1), (b)-(2), (c)-(4), (d)-(3)

C. (a)-(3), (b)-(1), (c)-(4), (d)-(2)

D. (a)-(4), (b)-(3), (c)-(2), (d)-(1)

14. Identify the icon marked as  in the given image of Windows 10 taskbar.



A. Task view

B. Search

C. Cortana

D. None of these

15. Which of the following statements is/are CORRECT about the given image?

- A. It is accessible only through smartphones.
- B. It does not allow you to share files with others.
- C. It is used to store and access files online.
- D. All of these



16. Identify the following:

- It is an input device used for verifying and recognising the identity of a living being.
- It can collect data such as fingerprints and facial recognition images.

A. Barcode scanner B. Biometric device C. OCR D. OMR

SPACE FOR ROUGH WORK

17. Which of the following generations of computer used integrated circuits technology?
- A. First generation computer B. Second generation computer
C. Third generation computer D. Fourth generation computer

18. Which of the following statements hold(s) true about the given device?



Statement 1 : It is a hardware device that is used to store data permanently.





Statement 2 : It is considered as a secondary memory of the computer.

- A. Only Statement 1 B. Only Statement 2
C. Both Statement 1 and Statement 2 D. Neither Statement 1 nor Statement 2
19. Utilities are the programs that assist in the smooth functioning of a computer. Some utilities help you to :
1. Avoid virus attack.
 2. Take backup of data.
 3. Recover data that has been accidentally erased.

Which of the following is a utility software?

- A.  B.  C.  D. 

20. Select the INCORRECT match with respect to MS-Paint of Windows 10.

- A.  - Select all
B.  - Free-form selection
C.  - Rectangular selection
D.  - Resize

21. Identify the following:

- It is a single document available on World Wide Web.
- It can contain information including text, graphics, audio, video and hyperlinks.
- There is a unique URL associated with each of them.



- A. Website B. Webpage C. Web browser D. Search engine

SPACE FOR ROUGH WORK

What is/are the advantage(s) of networking?

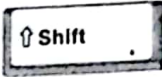

- A. Ease in transfer of data from one computer to another.
- B. Ease in sharing printers amongst connected computers.
- C. Easy sharing of software amongst connected computers.
- D. All of these

23. What is the shortcut key to select all the contents of a document in MS-Word 2016?



A.  + 

B.  + 

C.  + 

D.  + 

24. Which of the following statements is/are true regarding Windows 10 Search Bar?

- A. It is used to find anything on your PC.
- B. It will show you the top apps you use as well as the recent activities.
- C. You can open it by pressing  +  keys.
- D. All of these

25. Identify the following generation of computer:

- This generation used transistors technology.
- They used the assembly language for programming.
- IBM 1620 and CDC 3600 are the examples of this computer generation.

- A. First B. Second C. Third D. Fourth

26. Select the INCORRECT match.

- A. Abacus – First calculating device. It was invented in the 16th century in China.
- B. Pascaline – First electro-mechanical calculator, invented by Blaise Pascal.
- C. Difference Engine – First mechanical computer, designed by Charles Babbage.
- D. All of these

27. Which of the following gaming devices is used to point at the screen and shoot the targets while playing game on computer?

- A. Digitizer B. Paddle C. Light gun D. Steering wheel

SPACE FOR ROUGH WORK

28. LCD, CRT and LED terms are related with _____.



29. Select the INCORRECT match with respect to MS-Paint of Windows 10.

- A. Skew - To rotate the drawing through a given angle
- B. Thumbnail - To display the drawing in a small reference window
- C. TIFF - One of the file formats to store Word files
- D. Flip vertical - To change the drawing to its mirror image

30. Which of the following types of computer network covers the largest geographical area?

- A. CAN
- B. LAN
- C. MAN
- D. WAN

ACHIEVERS SECTION

31. Which of the following statements hold(s) true regarding Intranet?

Statement 1 : It is a world-wide global system of interconnected computer network.

Statement 2 : It is a private network of computers within an organisation.

- A. Only Statement 1
- B. Only Statement 2
- C. Both Statement 1 and Statement 2
- D. Neither Statement 1 nor Statement 2

32. The function of the given icon is _____ in MS-Word 2016.



- A. To check the spelling and grammar
- B. To replace the selected text with some other text
- C. To select the text or objects in your document
- D. To provide a list of synonyms

SPACE FOR ROUGH WORK

33. The given logo is of Google Pay that enables you to _____ by means of the internet.

- A. Give voice commands
- B. Share your files online
- C. Send and receive money
- D. Get more customers with ads



34. Which operation has been performed to get Image-2 from Image-1 in MS-Paint of Windows 10?

- A. Stretch
- B. Rotate
- C. Skew Vertical
- D. Skew Horizontal

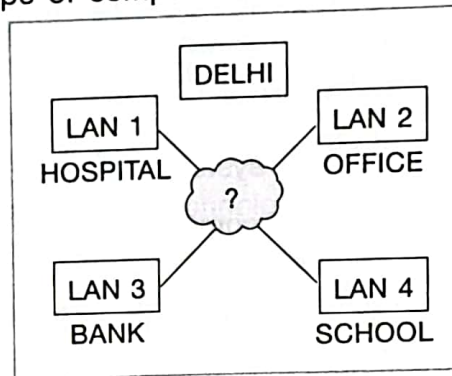


Image-1

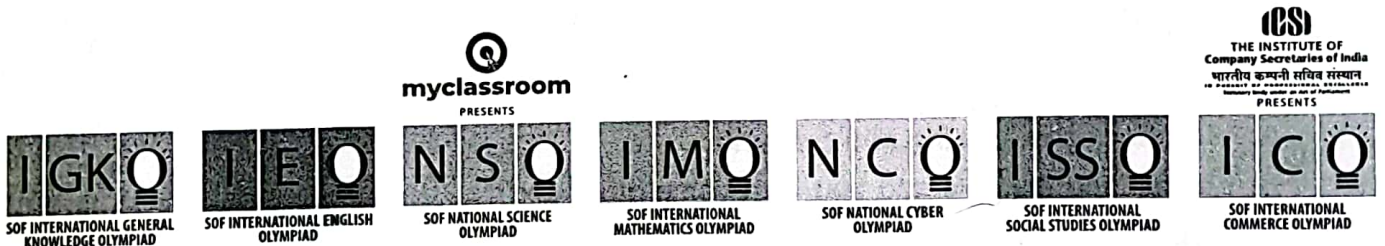


Image-2

35. Which of the following type of computer networks is shown in the given image?



- A. CAN
- B. BAN
- C. MAN
- D. PAN



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